

FIG. 2

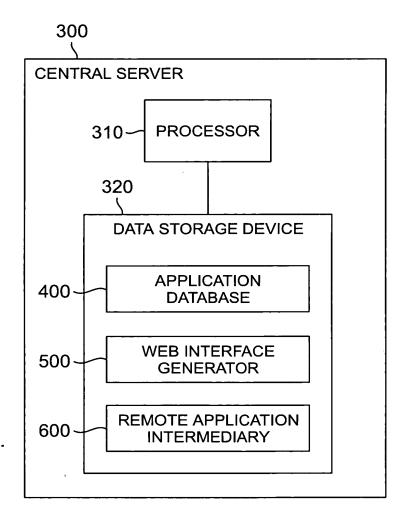


FIG. 3

400 APPLICATION DATABASE (OBJECT TEMPLATE) Class point_tool var name; var version; var location; array option1[]; array option2[]; // each of the following functions when invoked by the administrator add, delete and modify respectively the software application. public: function add_tool(); function delete_tool(); function modify tool(); // the following function when invoked by the client executes the tool with the specified parameters. 430 function use_tool(var, var, var);

FIG. 4

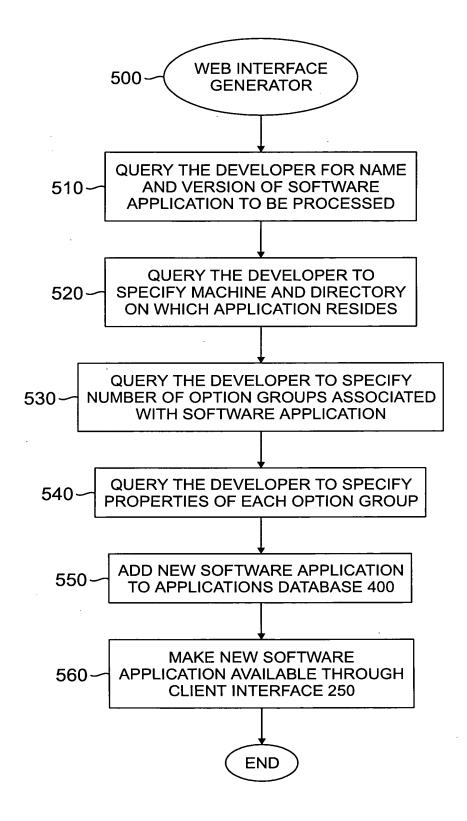


FIG. 5

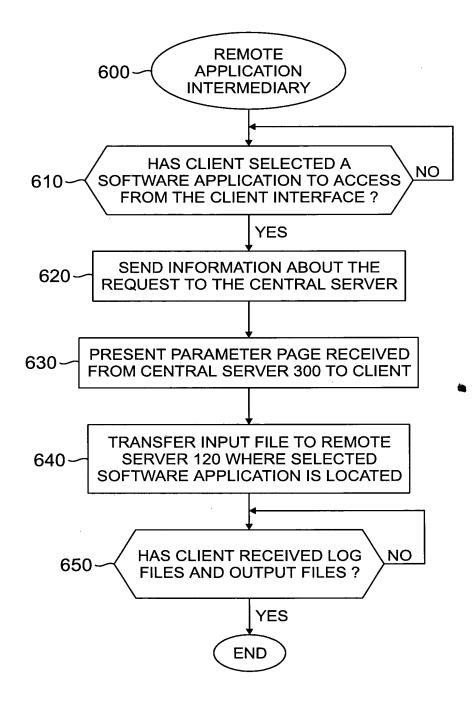


FIG. 6

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EXEMPLARY APPLICATION OPTION LIST

·	
OPTION NAME	CONSTRAINTS
-E, -S, -c	➤ CANNOT BE USED TOGETHER ➤ ALL NEED AT LEAST ONE INPUT FILE
-D, -I, -U, -xc, -o	 ➤ CANNOT BE USED TOGETHER ➤ ALL NEED AT LEAST ONE INPUT FILE ➤ NEED EXACTLY ONE INPUT PARAMETER
-g, -O1	➤ CANNOT BE USED TOGETHER ➤ NO INPUT PARAMETERS EXPECTED
-Wj, -Wall	➤ CANNOT BE USED TOGETHER ➤ NO INPUT PARAMETERS EXPECTED

FIG. 7

Addition of a new Point Tool

The general syntax of the point tools is as follows

tool_name <option_type1> <option_type2> <file_type>
Name of point tool scc 810

Version 1.0 820

Machine specification Solaris 830

IP Address of the Server 192.19.176.63 840

Location home/software/starcore/bin eg. tools/script.php

850 Number of options 4 860

next cancel

FIG. 8

, addition contin				
Initialize the Point Tool with the following data: Number of Parameters at time of execution for Option 1:				
© Exactly one parameterO One or more than one parameterO None or more parameters				
Enter the Valid parameters for this option with a brief description of in separate lines				
ego For optimization				
-E preprocess only -S generate assembly file -c generate object file				
Which of the following apply for the file input:				
O Exactly one file O One or more files O None or more files next cancel				
·				

FIG. 9

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Paint Tool Execution cont... Choose one of the following options: O -E preprocess only ⊙ -S generate assembly file O -c generate object file Select any of the following options that apply: ☑ -D define macro ☐ -I additional include directories ☐ -U undefine macro ☐ -xc assume c source file □ -o output file Select one of the following options that apply: ☑ -g generate debug info ☐ -O1 enable optimization (level 1) Choose one of the following options: O -Wj suppress warnings O -Wall generates all warnings next cancel 1050

FIG. 10

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Paint Tool Execution cont...

File Uploads

Attach File for Para	meter -S
limit.c	Browse
,	
Attach File for Para	ameter -D

Browse

Attach Input File

COMMAND_4

vector.c	Browse	
scalar.c	Browse	select another file

Runtime output diverted to a file? • Yes O No

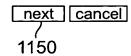


FIG. 11